

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 July 2005 (28.07.2005)

PCT

(10) International Publication Number
WO 2005/068065 A1

(51) International Patent Classification⁷: **B01J 19/00**,
B01D 3/08, B01F 13/00

(21) International Application Number:
PCT/GB2005/000114

(22) International Filing Date: 17 January 2005 (17.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0401045.0 17 January 2004 (17.01.2004) GB

(71) Applicant (for all designated States except US): **THE UNIVERSITY OF SHEFFIELD** [GB/GB]; Western Bank, Sheffield S10 2TN (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ALLEN, Raymond, William, Kenneth** [GB/GB]; Cherry Tree Cottage, Boars Hill, Oxford OX1 5DD (GB). **MACINNES, Jordan, MacLeod** [US/GB]; 32 Endcliffe Glen Road, Sheffield S11 8RW (GB). **PRIESTMAN, Geoffrey, Hugh** [GB/GB]; 49 Endcliffe Glen Road, Sheffield S11 8RW (GB).

(74) Agent: **PARKINSON, Neil, Scott**; Marks & Clerk, Sussex House, 83-85 Mosley Street, Manchester M2 3LG (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

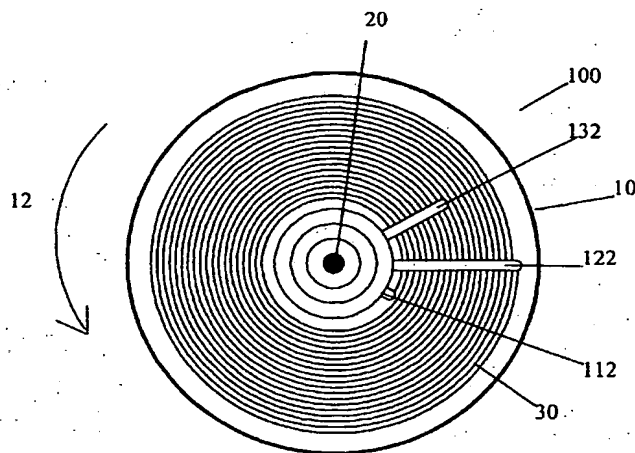
— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **FLUID-CONTACTOR**



(57) Abstract: A fluid-contactor includes a rotatable platform arranged to rotate about a predetermined axis. The platform has a channel extending generally in a spiral about the axis. The channel has at least a first aperture for the output of a first fluid, and at least a second aperture distant from the axis for the output of a second, more dense, fluid. The platform is arranged to rotate at an angular velocity sufficient to move second fluid within the channel towards the second aperture.

WO 2005/068065 A1